



**Development and Infrastructure Services
Permitting Division**

11000 N La Cañada Drive, Oro Valley, Arizona 85737 · 520-229-4815 · 520-742-1022 (fax)

G: _____

B: _____

W: _____

RETAINING / SITE WALL CHECKLIST

Subdivision _____ Lot # _____ Date _____

Address _____

City _____ State _____ Zip _____

Final Plat: Book _____ Page _____ Sheet _____ Parcel # _____

Contact _____ Phone _____ Fax _____

PLEASE RESPOND TO THE FOLLOWING ITEMS:

Notice to Permit Holder - It is the applicant/ owner's responsibility to ensure all private rules and regulations of the subdivision are adhered to. Contact your HOA or property management to determine applicable requirements. **Initial Here** _____

Items required for review:

- Two copies of Wet Stamped Bound Structural Calculation Booklet required for:
 - Retaining walls greater than 4' (measured from bottom of footing)
 - Retaining walls with site walls/ combined height greater than 6' (measured from bottom of footing)
 - Any retaining walls with an applied surcharge load
 - Patio/screen/site walls greater than 6 feet (measured from finished grade)
- 2 sets of Wet Stamped Site Specific Soils Reports
- Soils Report shall be referenced in Structural Calculation booklet
- Details/ schedules and location of walls shall be shown on grading/site plan
- Reports submitted
 - Structural Engineer Report per _____, Project # _____
 - Soils Report per _____, Project # _____
- Basic Structural Requirements Section per 2006 IBC and Soils Report
 - Exposure Category
 - Structural Design Criteria shall reference Exposure Category; Oro Valley is Exposure Category C (90 mph, 3 sec. burst wind loads).
 - Wind load justification (reference 2006 IBC) _____
 - Wall stability ratios
 - Over turning ratio $\geq 1.5 : 1$ (min. requirement) _____
 - Sliding ratio $\geq 1.5 : 1$ (min. requirement) _____
 - Allowable soil bearing pressure (reference Soils Report) _____
 - Active pressure (reference Soils Report) _____
 - Passive pressure (reference Soils Report) _____
 - Soil friction factor (reference Soils Report) _____

- Imposed Surcharge Wall design calculations _____
- Height of wall _____
- Thickness of wall _____
- Reinforcement Bar Size _____
- Reinforcement Bar Spacing _____
- _____
- Reinforcement Bar Strength _____
- Solid Grouting Spec. _____
- Special Insp. Spec. _____

Footing Design

- Thickness _____
- Width _____
- Reinforcement Bar Size _____
- Reinforcement Bar Spacing _____
- Footing Depth (per Allowable Soil Bearing Pressure requirements) _____
- Height of soil over toe (per Allowable Soil Bearing Pressure requirements) _____
- _____
- Reinforcement Bar strength _____
- Key width _____
- Key depth _____
- Distance from toe to key _____

Detail and Schedule Review

- Wall dimensions do not match design calculations _____
- Footer dimensions do not match design calculations _____
- Reinforcement Bar Placement does not match design calculations _____
- Justify size and spacing of weep holes _____
- Revise detail and/or schedule to comply with Soils/ Structural Report _____
- _____

Submit addendum to soils report to determine equivalent drainage system _____

- _____

Justify material used around weep pipe as free draining _____